## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	101804.331A
Source:	IFWO.
Date Processed by STIC:	4/2/07

## ENTERED



**IFWO** 

RAW SEQUENCE LISTING DATE: 04/02/2007 PATENT APPLICATION: US/10/804,331A TIME: 16:00:49

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Output Set: N:\CRF4\04022007\J804331A.raw

3 <110> APPLICANT: Smith, Johnathan F. 4 Kamrud, Kurt I. 5 Rayner, Jon O. 7 <120> TITLE OF INVENTION: IMPROVED ALPHAVIRUS REPLICONS AND HELPER CONSTRUCTS 9 <130> FILE REFERENCE: 9368-5 11 <140> CURRENT APPLICATION NUMBER: US 10/804,331A 12 <141> CURRENT FILING DATE: 2004-03-19 14 <150> PRIOR APPLICATION NUMBER: US 60/456,196 15 <151> PRIOR FILING DATE: 2003-03-20 17 <160> NUMBER OF SEQ ID NOS: 44 19 <170> SOFTWARE: PatentIn version 3.3 21 <210> SEO ID NO: 1 22 <211> LENGTH: 18 23 <212> TYPE: PRT 24 <213> ORGANISM: Artificial 26 <220> FEATURE: 27 <223> OTHER INFORMATION: Alphavirus attenuating amino acid insertion sequence 29 <400> SEQUENCE: 1 31 Ile Thr Ser Met Asp Ser Trp Ser Ser Gly Pro Ser Ser Leu Glu Ile 32 1 10 35 Val Asp 39 <210> SEQ ID NO: 2 40 <211> LENGTH: 357 41 <212> TYPE: DNA 42 <213> ORGANISM: Artificial 44 <220> FEATURE: 45 <223> OTHER INFORMATION: Spacer sequence generated by AluI digest of pCDNA 47 <400> SEQUENCE: 2 48 ctgaatgaag ccataccaaa cgacgagcgt gacaccacga tgcctqtaqc aatgqcaaca 60 50 acgttgcgca aactattaac tggcgaacta cttactctag ctaccaactc tttttccgaa 120 52 ggtaactggc ttcagcagag cgcagatacc aaatactgtt cttctagtgt agccgtagtt 180 54 aggccaccac ttcaagaact ctgtagcacc gcctacatac ctcgctctgc taatcctgtt 240 56 accagtggct gctgccagtg gcgataagtc gtgtcttacc gggttggact caagacgata 300 58 gttaccggat aaggegeage ggtegggetg aaeggggggt tegtgeacae ageceag 357 61 <210> SEQ ID NO: 3 62 <211> LENGTH: 342 63 <212> TYPE: DNA 64 <213> ORGANISM: Artificial 66 <220> FEATURE: 67 <223> OTHER INFORMATION: Spacer sequence generated by AluI digest of pCDNA 69 <400> SEQUENCE: 3 70 ctattccaga agtagtgagq aggctttttt ggaggcctag gcttttqcaa aaaqcttgta 60 72 tatccatttt cggatctgat caagagacag gatgaggatc gtttcqcatg attgaacaag

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96 ctccaacgtc aaagggcgaa aaaccgtcta tcagggcgat ggcccactac gtgaaccatc	180
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Input Set : A:\9368-5 SUBSTITUTE.ST25.TXT
Output Set: N:\CRF4\04022007\J804331A.raw

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Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

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PATENT APPLICATION: US/10/804,331A

DATE: 04/02/2007 TIME: 16:00:50

ATENT APPLICATION: US/10/004,331A TIME: 10:00